

# Department of Aeronautics and Astronautics

## Naval Postgraduate School

### Faculty Vita

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#### **Maximilian F. Platzer**

Chairman and Distinguished Professor  
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#### **Education:**

Doctor of Technical Sciences (with distinction), Technical University of Vienna, Austria,  
1964  
Diploma Engineer of Mechanical Engineering Technical University of Vienna, Austria, 1957

#### **Related Experience (Teaching, Industrial, etc.):**

Visiting Research Professor, Technical University of Lausanne, Switzerland, Spring 1990 and  
Spring/Fall 1994  
Associate Editor, AIAA Journal, 1/91 to 12/93  
Director, Navy-NASA Joint Institute of Aeronautics, 1986 to present  
Technical University of Vienna, Chair Professor of Fluid Mechanics, 1982-1984  
Associate Program Manager for Aircraft Propulsion Research, Naval Air Systems Command,  
1973-1982  
Research Fellow, Department of Mechanical Engineering University of Queensland,  
Australia, Summer 1976  
Chief of Aeromechanics Research, Lockheed-Georgia Research Laboratory, Marietta, GA,  
1966-1970,  
Assistant to the Branch Chief and Chief of the Unsteady Aerodynamics Section, NASA  
George C. Marshall Space Flight Center, 1960-1966,  
Assistant Professor at the Institutes of Fluid Mechanics and Applied Mathematics, Technical  
University of Vienna, 1957-1960

#### **Institutional and Professional Service:**

Chairman, Department of Aeronautics and Astronautics, Naval Postgraduate School,  
1978-1982, 1984-1988, 2000 to present  
Chair of the Naval Postgraduate School Faculty, 2000  
Chair of the Structures & Dynamics Committees of the International Gas Turbine Institute,  
1998-2000

#### **Honors and Awards:**

Fellow, American Institute of Aeronautics and Astronautics, 2000  
Certificate of Recognition for Outstanding Research Performance, Naval Postgraduate  
School, 1998

Distinguished Professor, Naval Postgraduate School, 1995  
Certificate of Recognition for Outstanding Instructional Performance, Naval Postgraduate School, 1993  
Fellow, American Society of Mechanical Engineers, 1992  
Certificate of Recognition by the President of Lockheed-Georgia Company, Mr. L. Kitchen, 1972  
NASA Incentive Award for Superior Achievement by the Director of NASA Marshall Space Flight Center, Dr. Wernher von Braun, 1965

**Scientific and Professional Society Membership:**

American Institute of Aeronautics and Astronautics (AIAA)  
American Society of Mechanical Engineers (ASME)  
Sigma Xi, Research Society of North America (SX)  
New York Academy of Science (NYAS)

**Principal Publications (Last 5 Years):**

Weber, S. and Platzer, M.F., "Computational Simulation of Dynamic Stall on the NLR 7301 Airfoil," *Journal of Fluids and Structures*, Vol. 14, pp. 779-798, 2000.  
Tuncer, I.H. and Platzer, M.F., "Computational Study of Flapping Airfoil Aerodynamics," *Journal of Aircraft*, Vol. 37, No. 3, pp. 514-520, May-June 2000.  
Hebbbar, K.S., Fritzels, A.E. and Platzer, M.F., "Reynolds Number Effects on the Vortical-Flow Structure Generated by a Double-Delta Wing," *Experiments in Fluids*, pp. 206-216, 2000.  
Weber, S. and Platzer, M.F., "A Navier-Stokes Analysis of the Stall Flutter Characteristics of the Buffum Cascade," *Journal of Turbomachinery*, Vol. 122, pp. 769-776, October 2000.  
Lai, J.C.S. and Platzer, M.F., "Jet Characteristics of a Plunging Airfoil," *AIAA Journal*, Vol. 37, No. 12, pp. 1529, December 1999.  
Jones, K.D., Dohring, C.M. and Platzer, M.F., "Experimental and Computational Investigation of the Knoller-Betz Effect," *AIAA Journal*, Vol. 36, No. 7, pp. 1240-1246, 1998.  
Tuncer, I.H. and Platzer, M.F., "Potential Flow Solutions with Wakes over an Ogive Cylinder," *Journal of Spacecraft and Rockets*, Vol. 35, No. 3, May-June 1998.  
Sanz, W. and Platzer, M.F., "Numerical Investigation of the Stall Onset Behavior of the GA(W)-1 Airfoil," *Computers & Fluids*, Vol. 27, Nos 5-6, pp. 681-687, 1998.  
Tuncer, I.H. and Platzer, M.F., "Computational Study of Subsonic Flow over a Delta Canard-Wing-Body Configuration," *Journal of Aircraft*, Vol. 35, No. 4, pp. 554-560, July-August 1998.  
Tuncer, I.H., Van Dyken, R.D. and Platzer, M.F., "Navier-Stokes Analysis of Subsonic Flowfields over a Missile Configuration," *Journal of Spacecraft & Rockets*, Vol. 35, No. 2, pp. 127-131, March-April 1998.  
Sanz, W. and Platzer, M.F., "On the Navier-Stokes Calculation of Separation Bubbles with a New Transition Model," *ASME Journal of Turbomachinery*, Vol. 120, pp. 36-42, January 1998.  
Ekaterinaris, J.A. and Platzer, M.F., "Computational Prediction of Airfoil Dynamic Stall," *Progress in Aerospace Sciences*, Vol. 33, pp. 759-846, 1998.  
Hebbbar, S.K., Chang, W.H. and Platzer, M.F., "Control of High-Incidence Flow on Double-Delta Wings Undergoing Sideslip," *Journal of Aircraft*, Vol. 34, No. 4, pp. 506-513, July-August 1997.  
Hebbbar, S.K., Alkhozam, A.M. and Platzer, M.F., "Experimental Study of Vortex Flow Control on Double-Delta Wings Using Fillets," *Journal of Aircraft*, Vol. 33, No. 4, pp. 743-751, July-August 1996.

- Tuncer, I.H. and Platzer, M.F., "Thrust Generation due to Airfoil Flapping," *AIAA Journal*, Vol. 34, No. 2, pp. 324-331, February 1996.
- Ekaterinaris, J.A. and Platzer, M.F., "Numerical Investigation of Stall Flutter," *ASME Journal of Turbomachinery*, Vol. 118, pp. 197-203, April 1996.
- Jones, K.D. and Platzer, M.F., "Time-Domain Analysis of Low-Speed Airfoil Flutter," *AIAA Journal*, Vol. 34, No. 5, pp. 1027-1033, May 1996.
- Van Dyken, R.D., Ekaterinaris, J.A., Chandrasekhara, M.S. and Platzer, M.F., "Analysis of Compressible Light Dynamic Stall Flow at Transitional Reynolds Numbers," *AIAA Journal*, Vol. 34, No. 7, July 1996, pp. 1420-1427.